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TECHNICAL REPORT

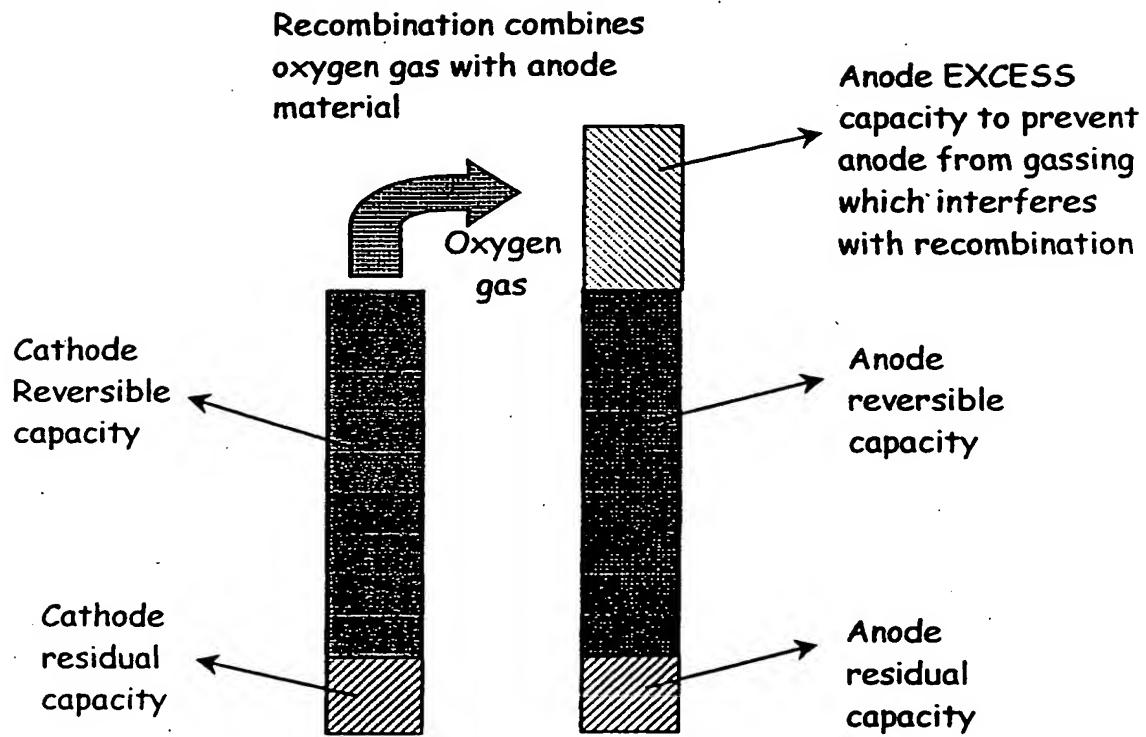
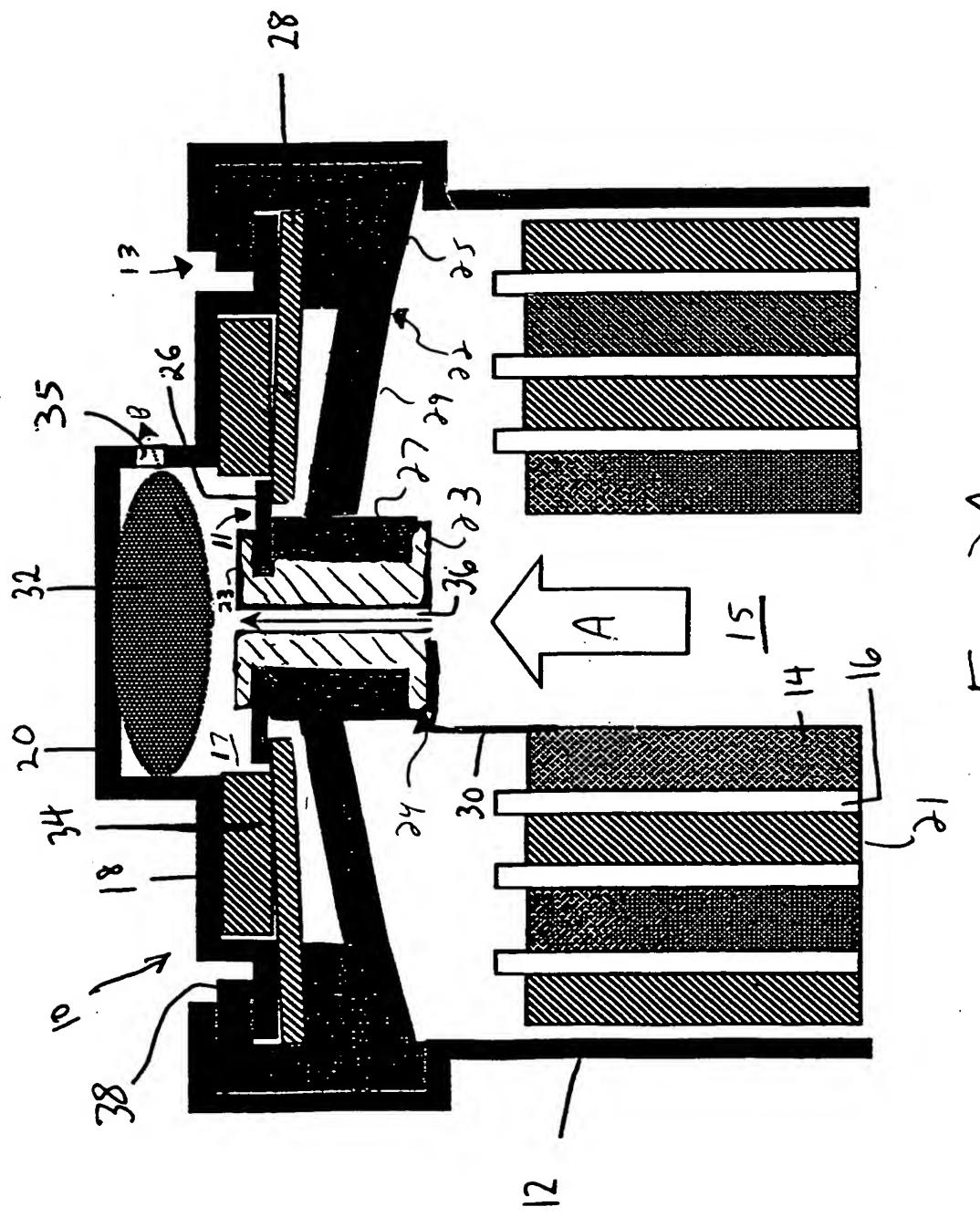


FIG 1



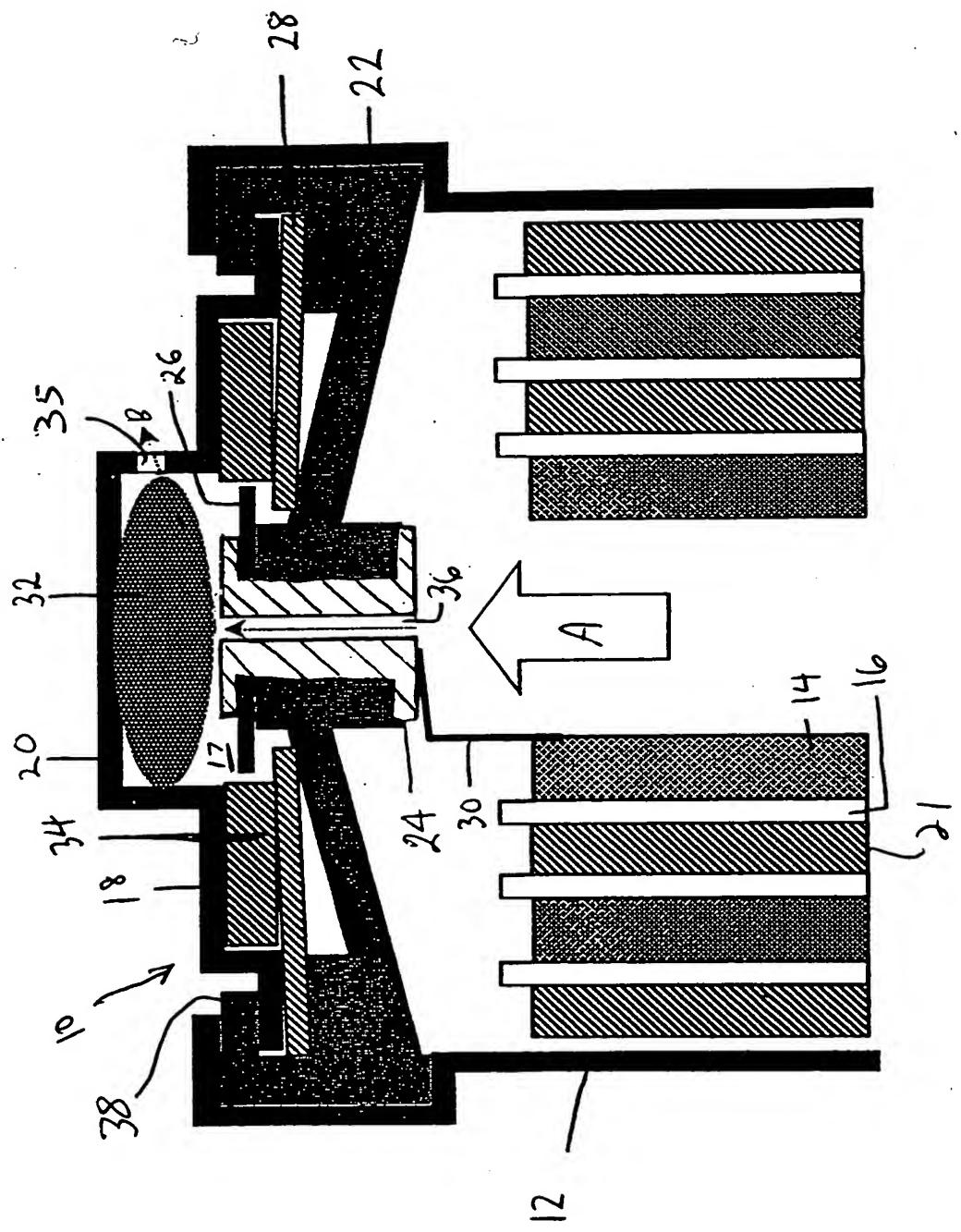
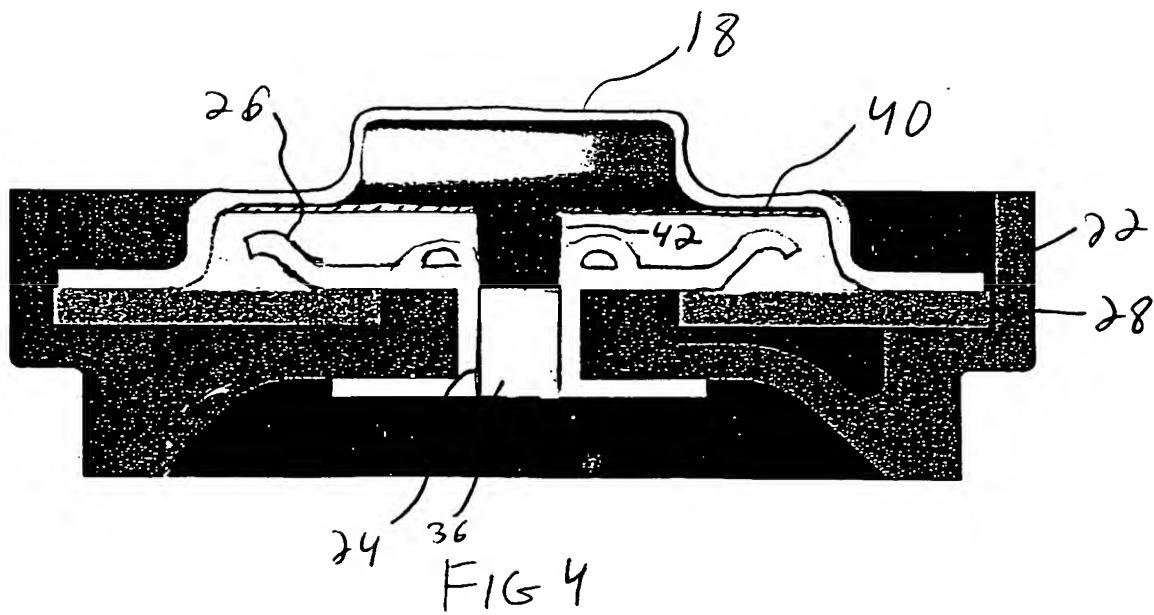
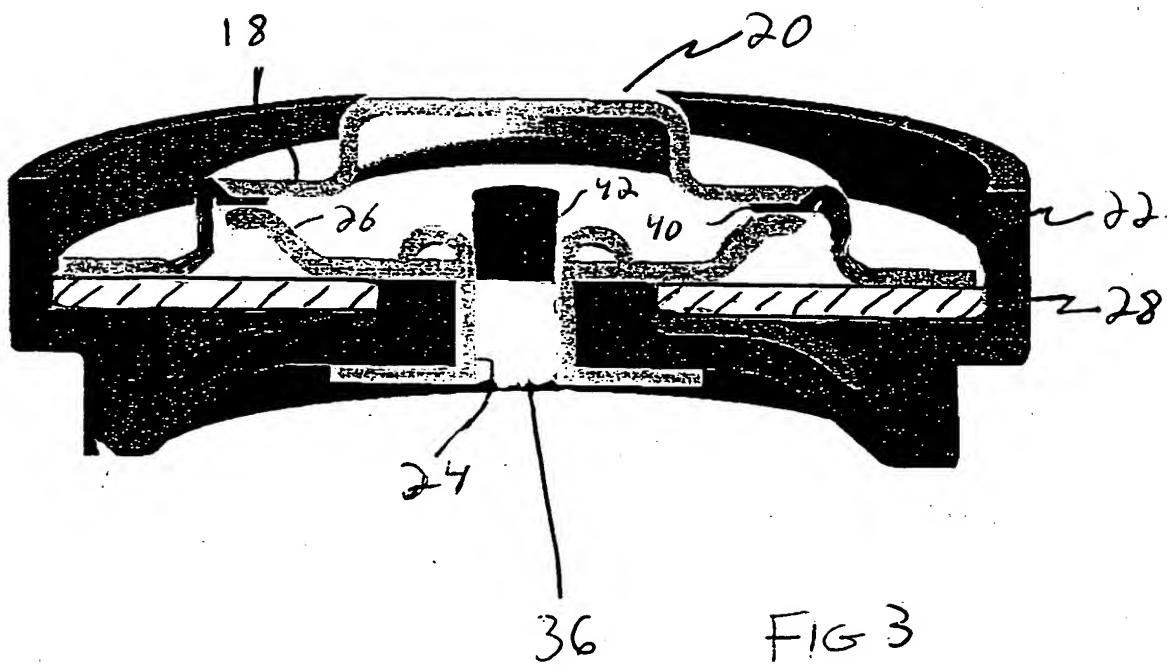


Fig. 2B



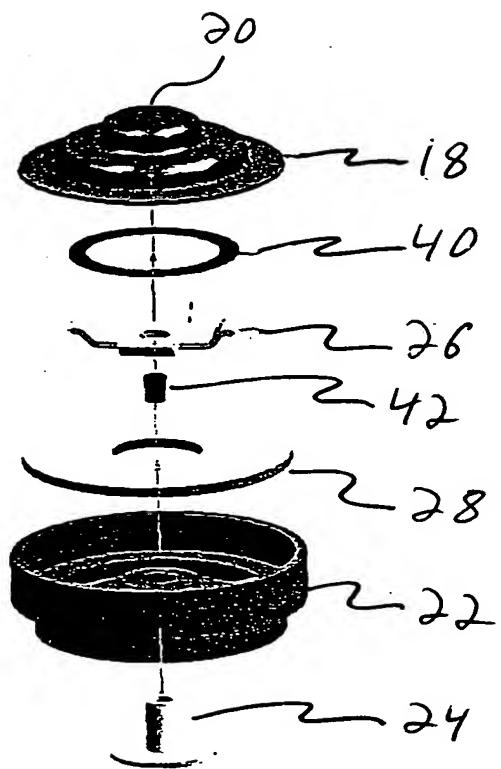
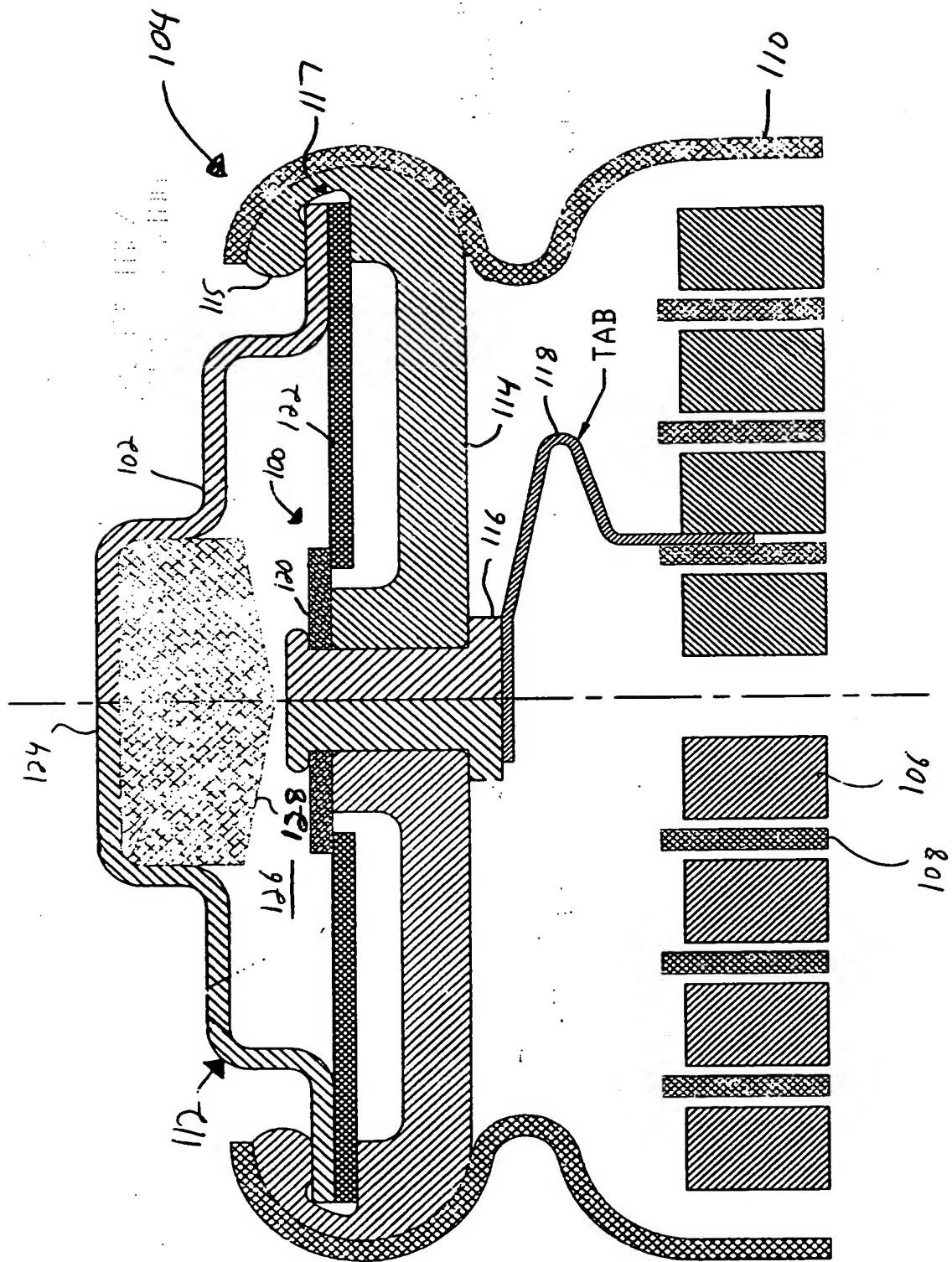


FIG. 5



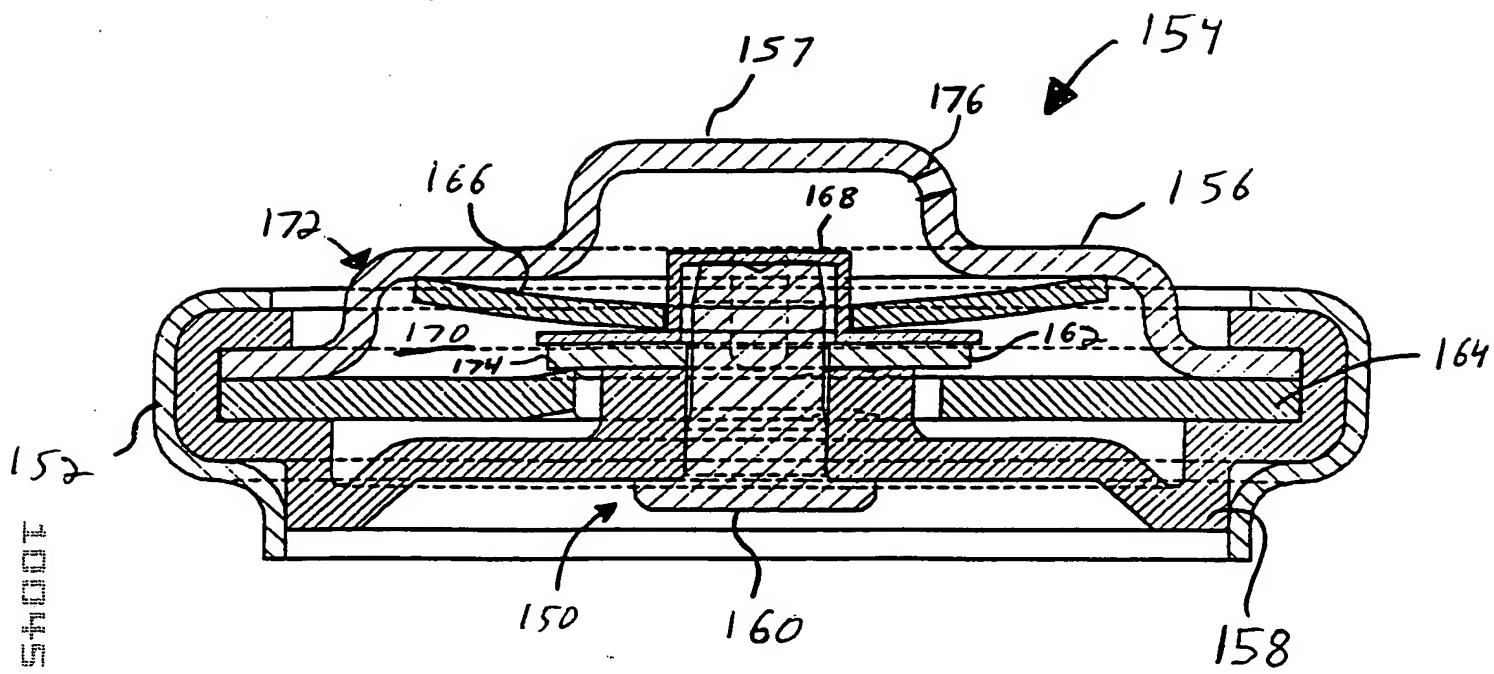


Fig. 7

Figure 8 Nickel metal hydride cell pressure and temperature during alternating current or constant current charge.

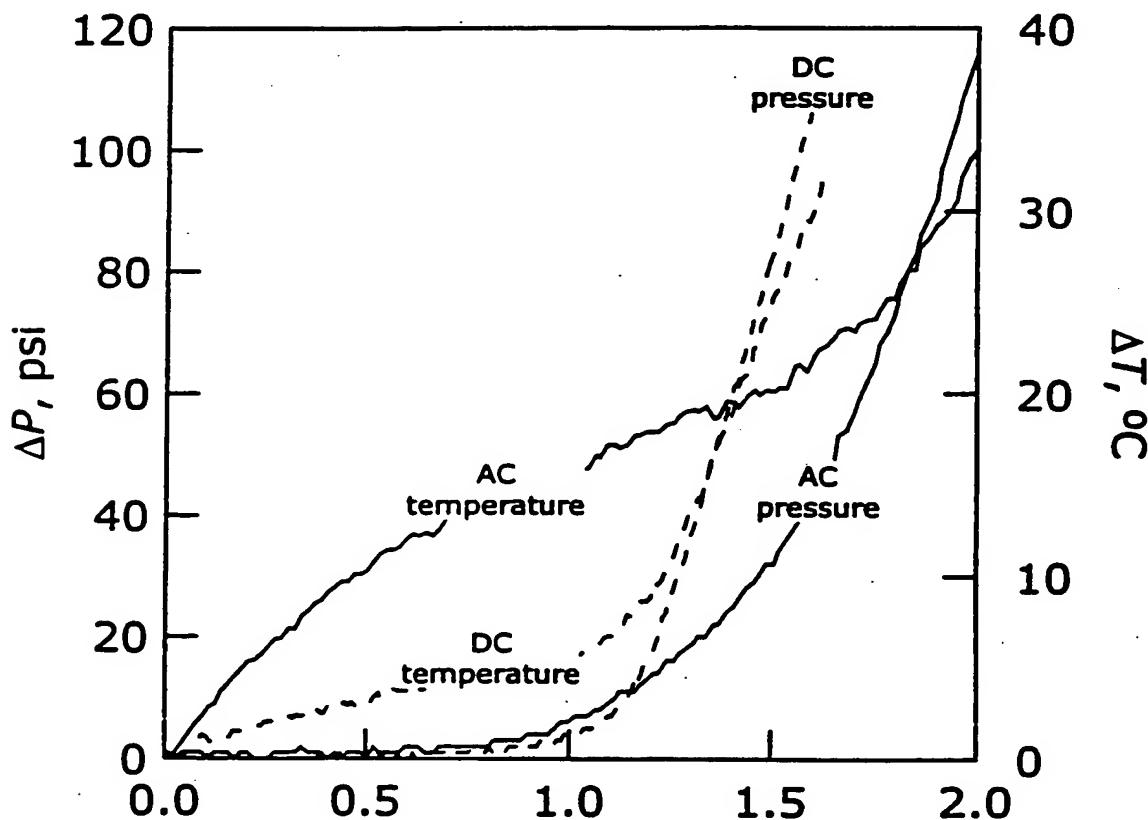
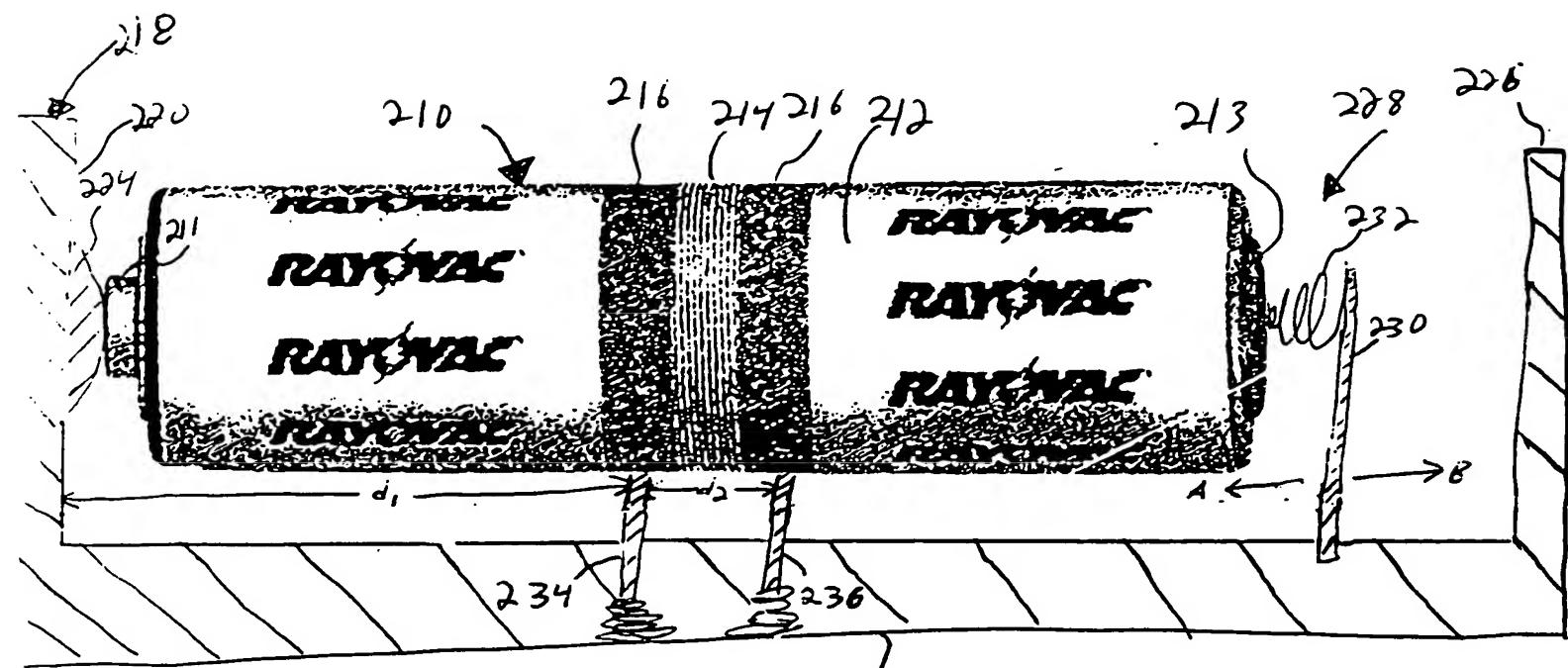
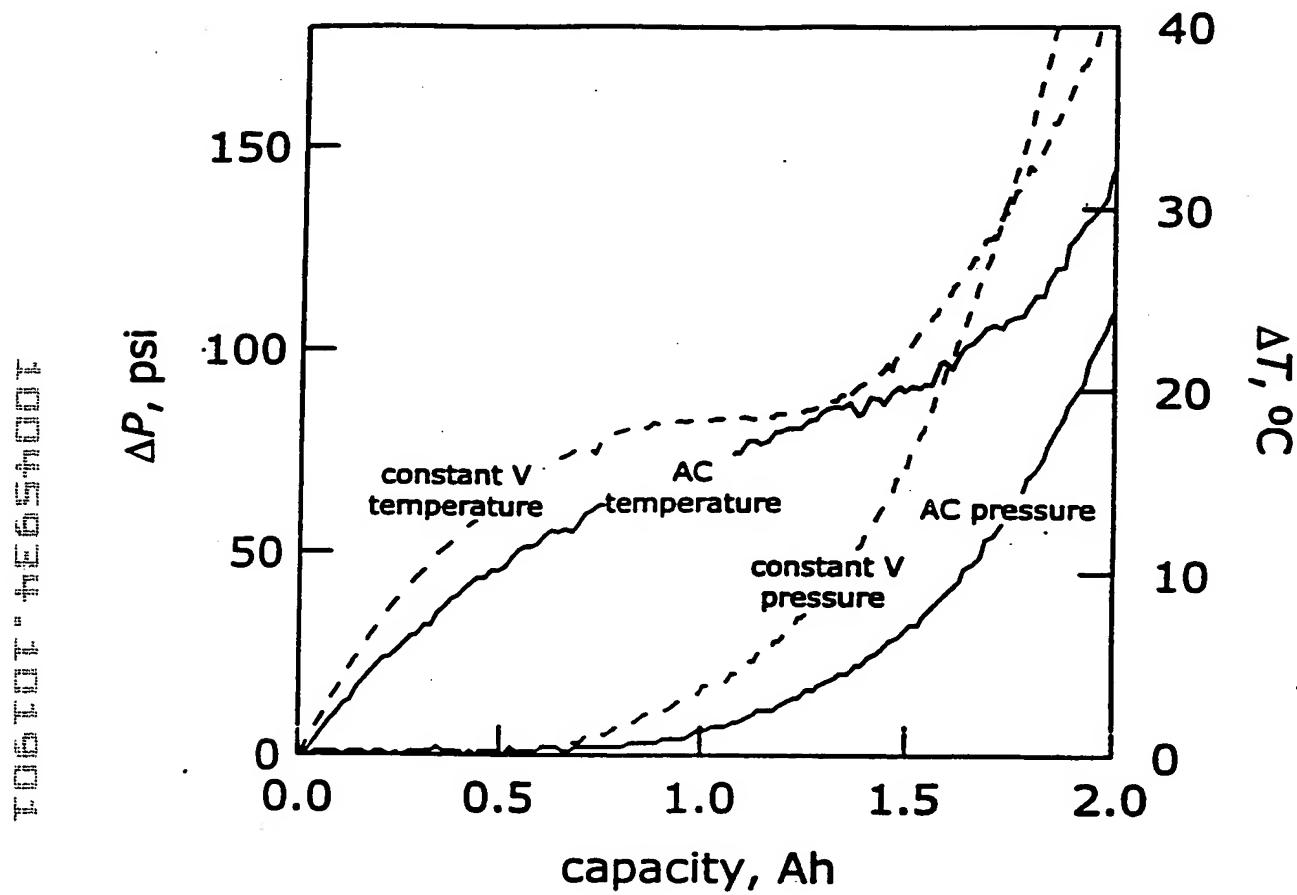


Figure 9 Nickel metal hydride cell pressure and temperature during alternating current or constant voltage charge.



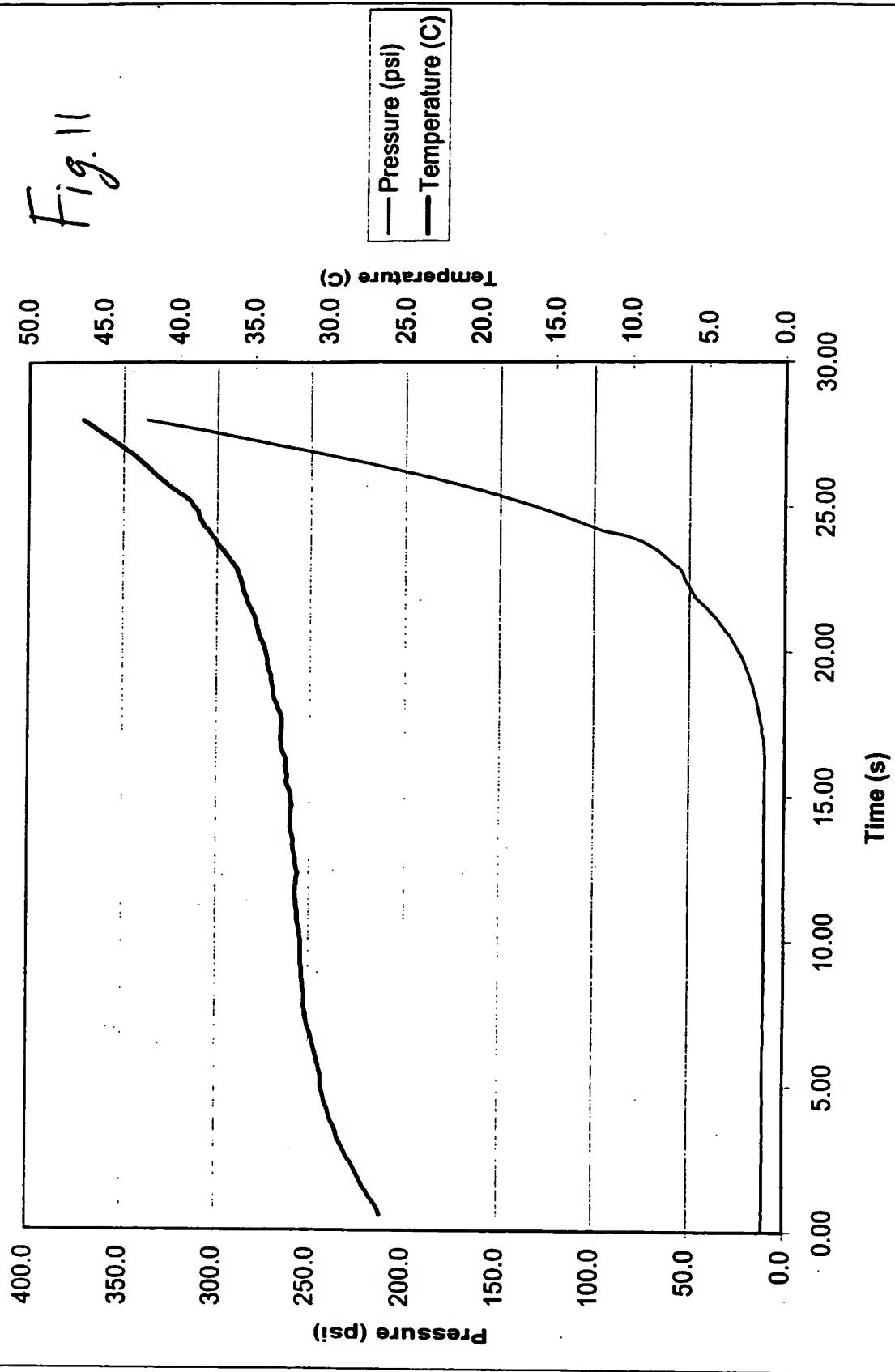


Fig.12

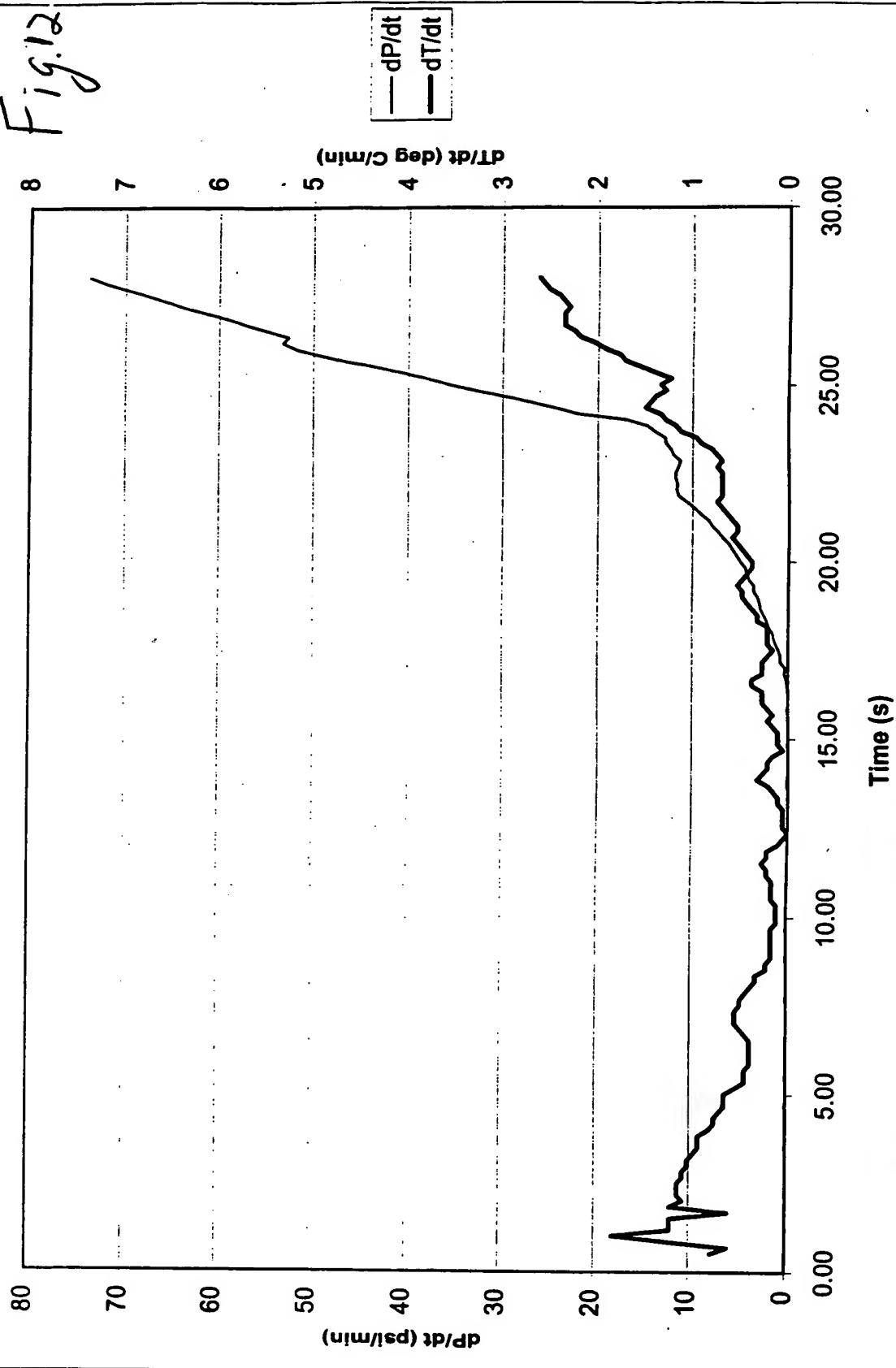
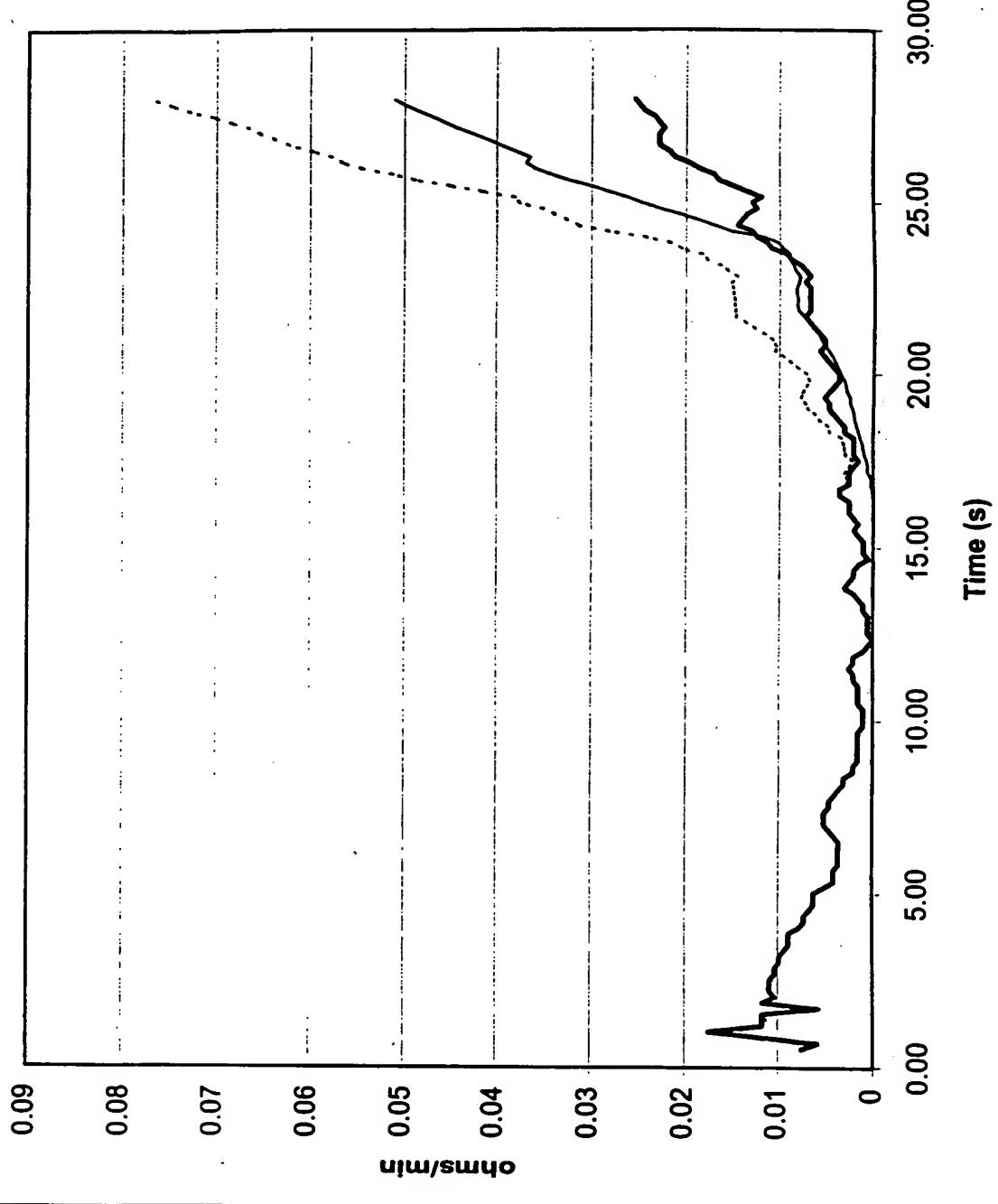


Fig. 13

— $R \text{ kg } dP/dt D/2Et$
— $R \text{ kg } kt \text{ dT/dt}$
- - - dR/dt



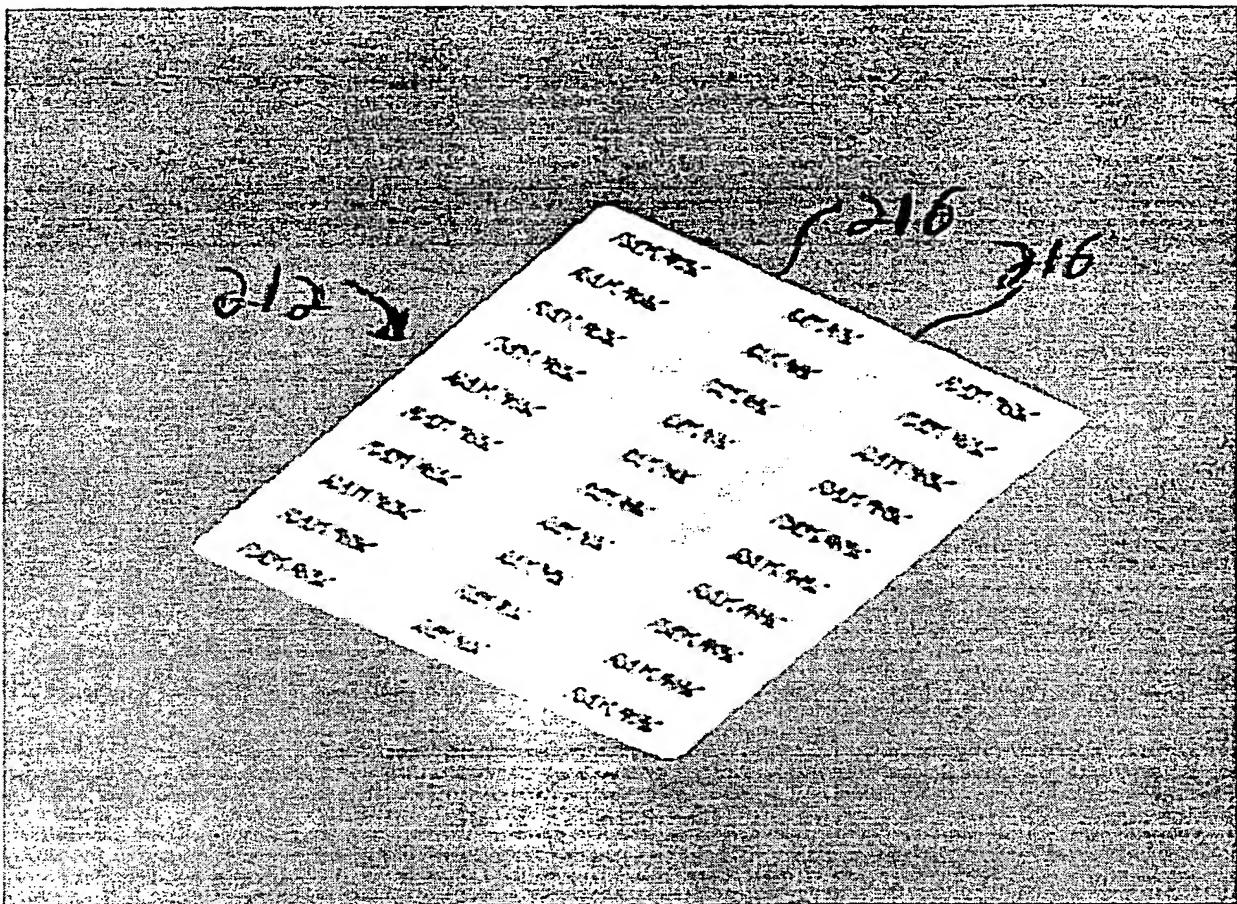


Fig. 14

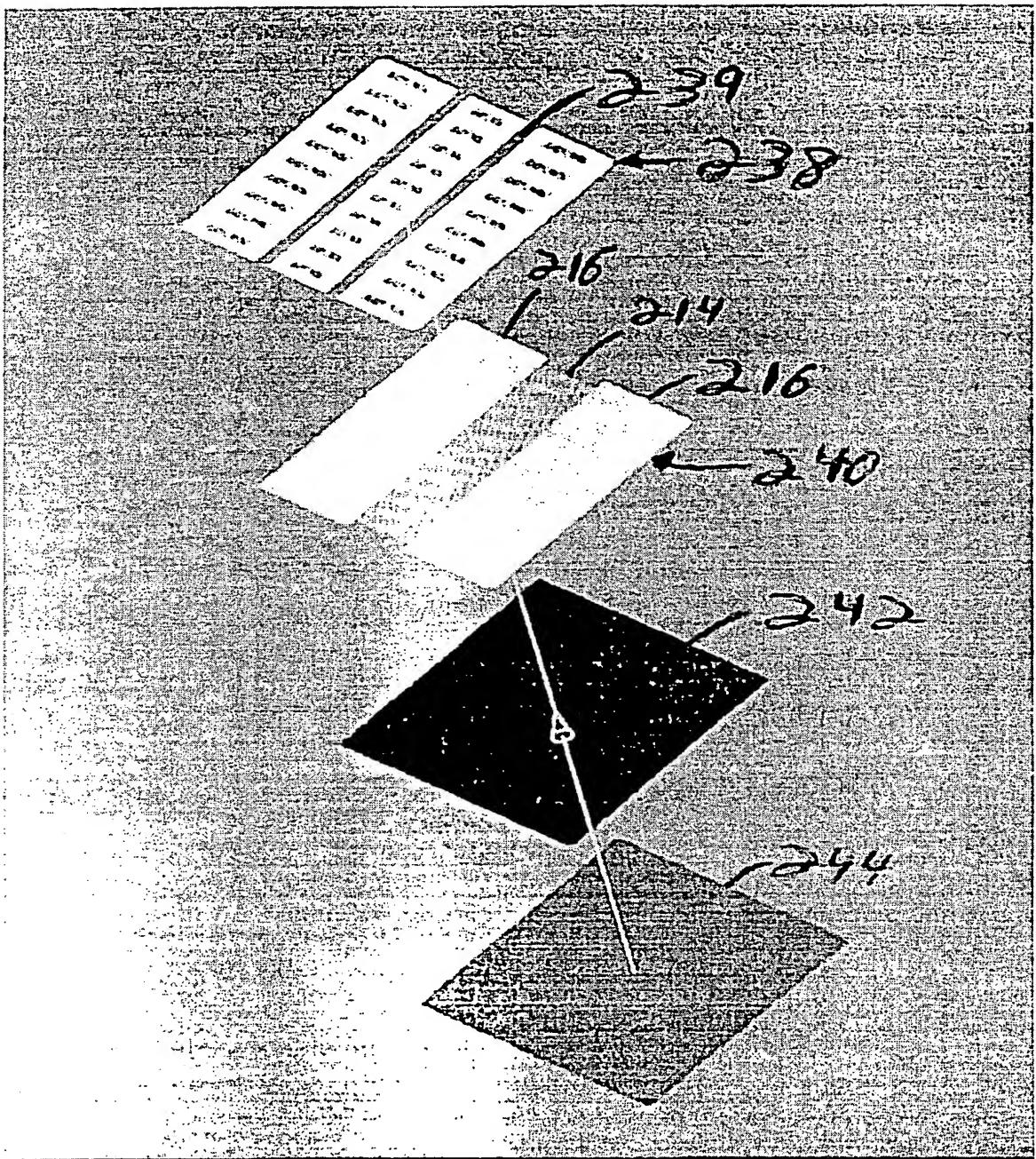


Fig. 15

100459244 - 101904

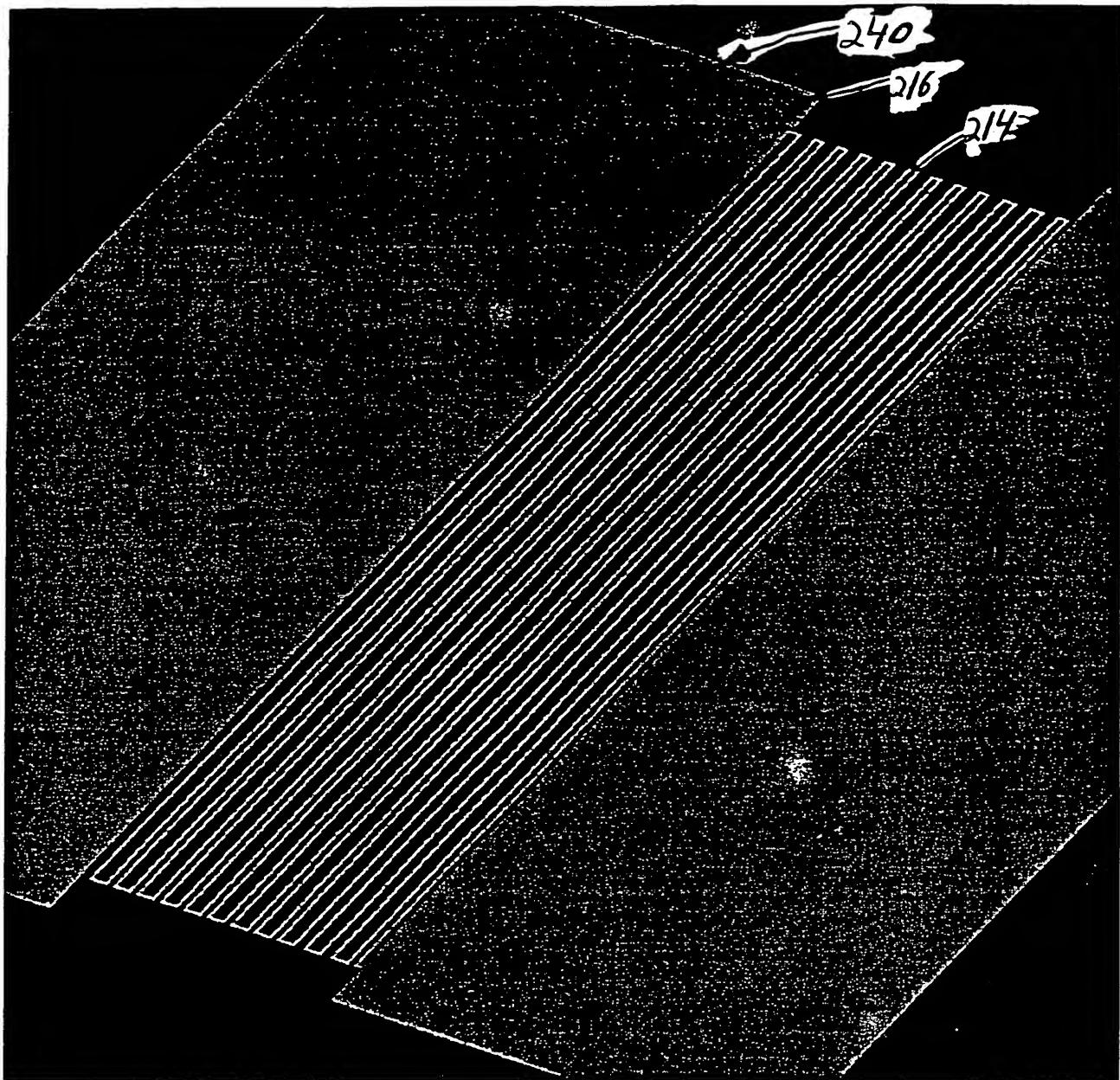
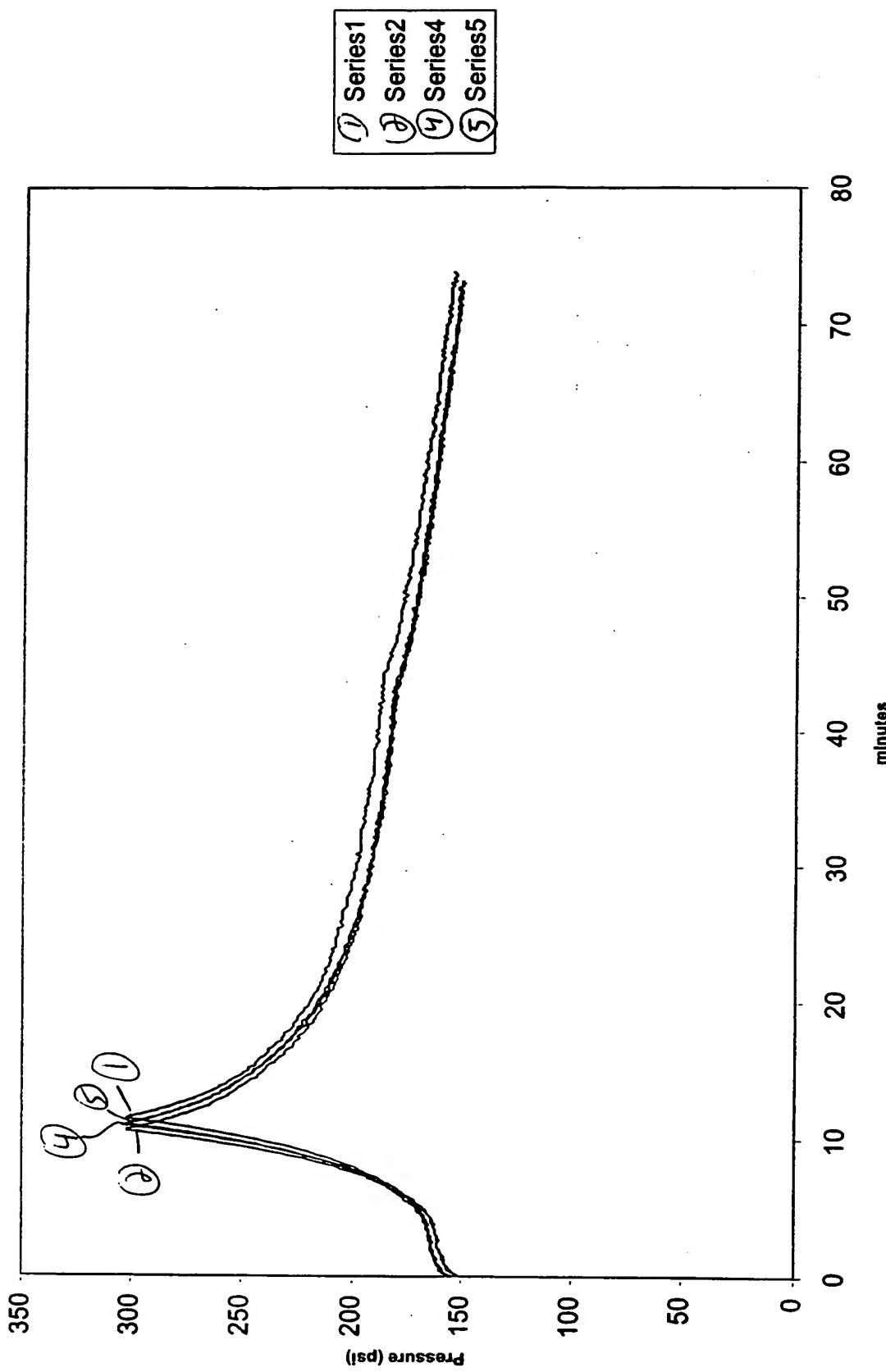
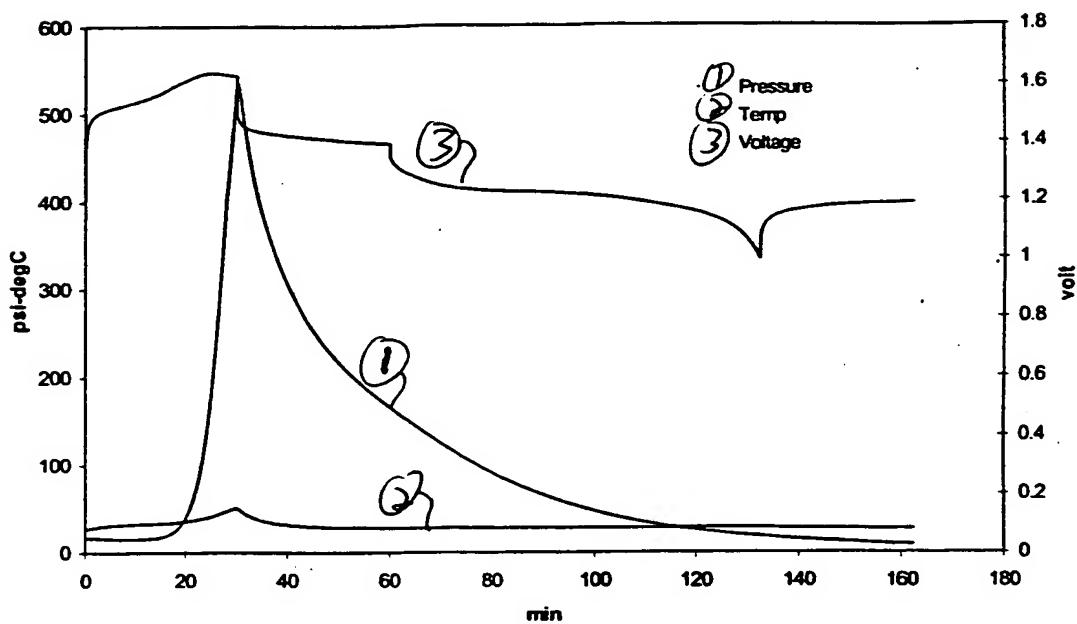


Fig. 16

Fig 17 Internal pressure of multiple
cells on 15 min. charged 1hr. discharge



1300 mAh nickel-metal hydride cell
Fig. 18 with 30 minute constant current charge



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Figure 19
1300 mAh cell - Pressure rise and Fall
vs. cycle life number

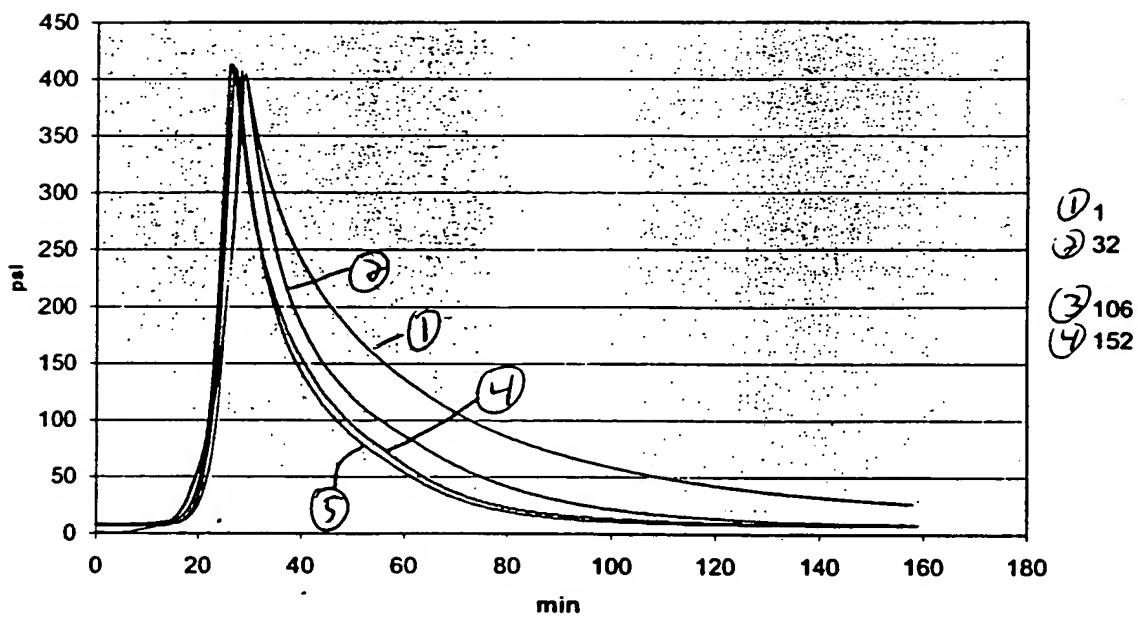
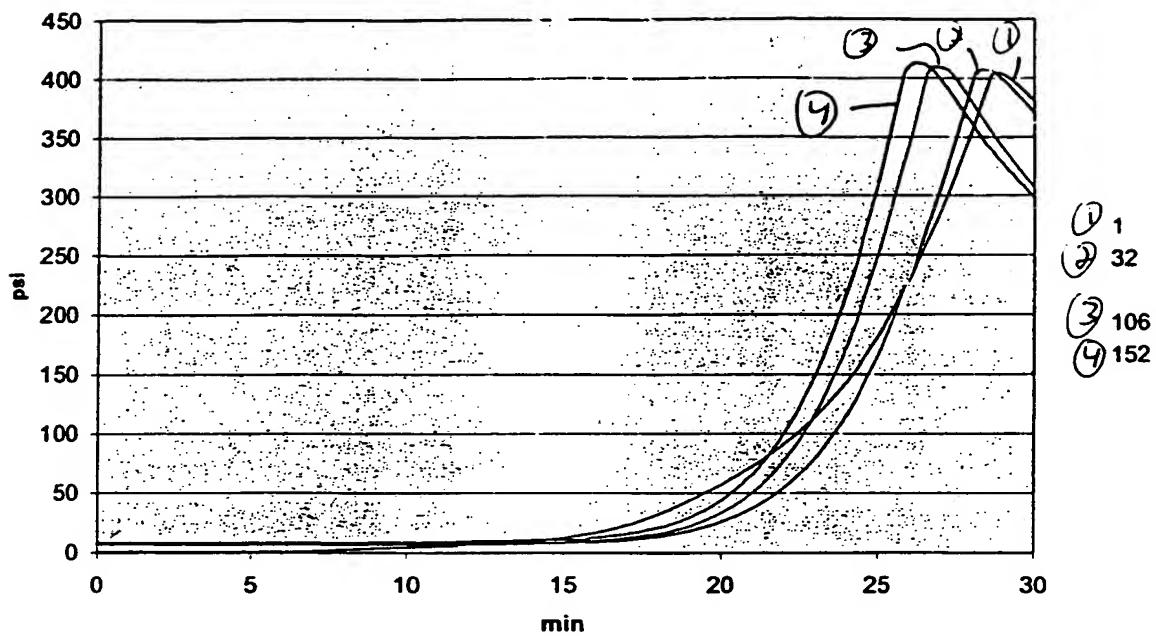


Figure 20

1300 mAh cell - Pressure rise versus Cycle Life number



TOP SECRET - THE GEMINI PROJECT

Fig 21

1300 mAh cell - Pressure fall vs. cycle life number

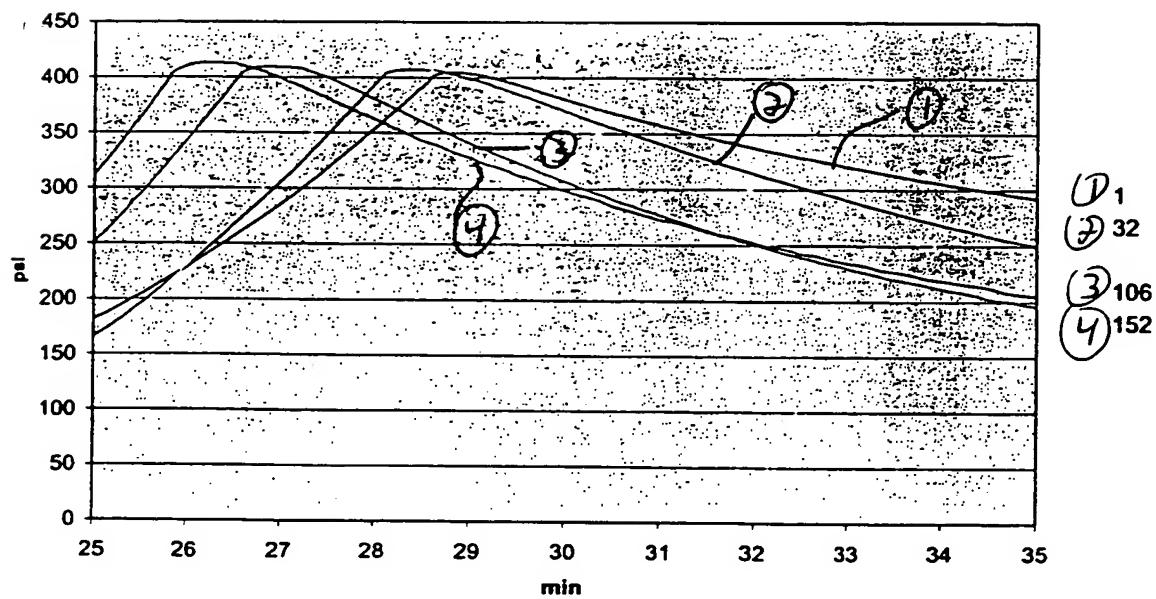


Figure 22

1300 mAh cell - Rise and fall of Pressure,
Temperature and voltage vs. cycle life number

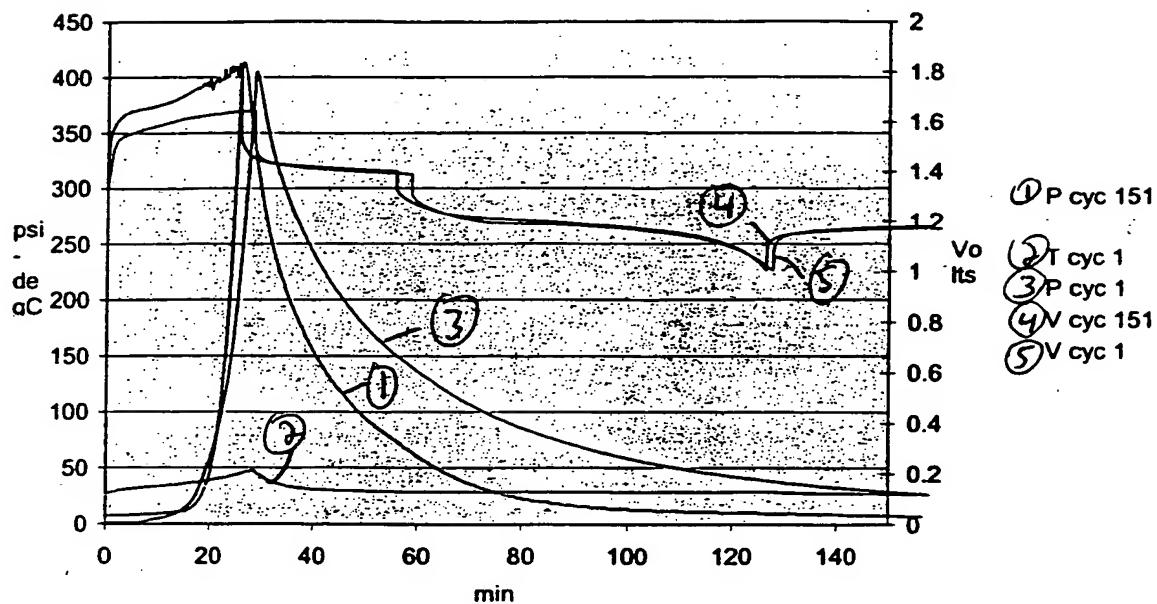


Figure 23

1100 mAh cell - pressure rise and fall of
multiple cells vs. cycle life number

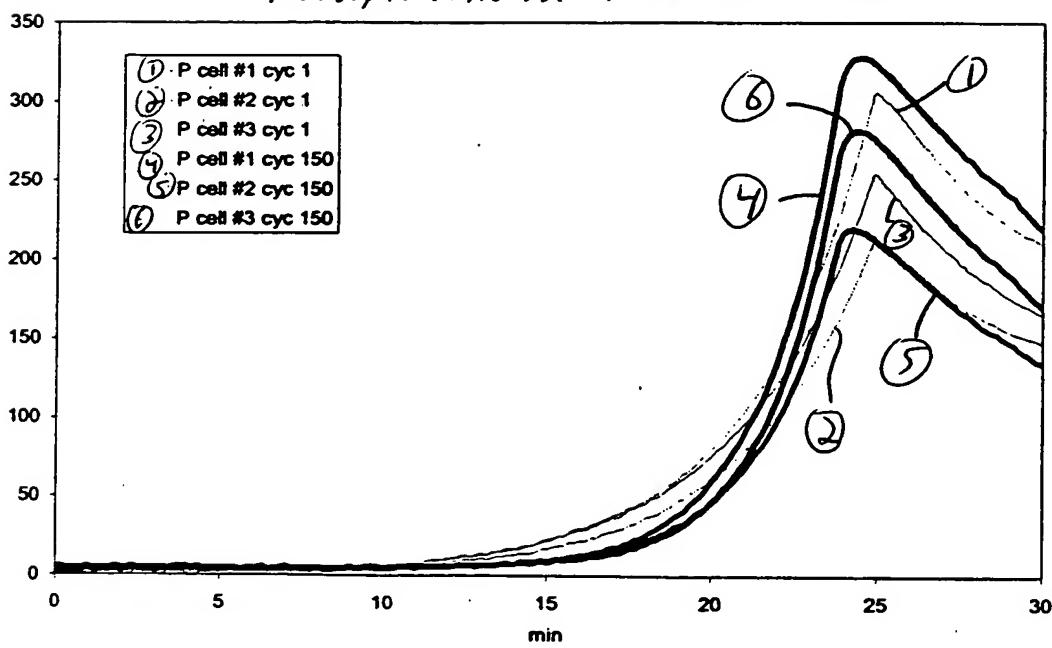
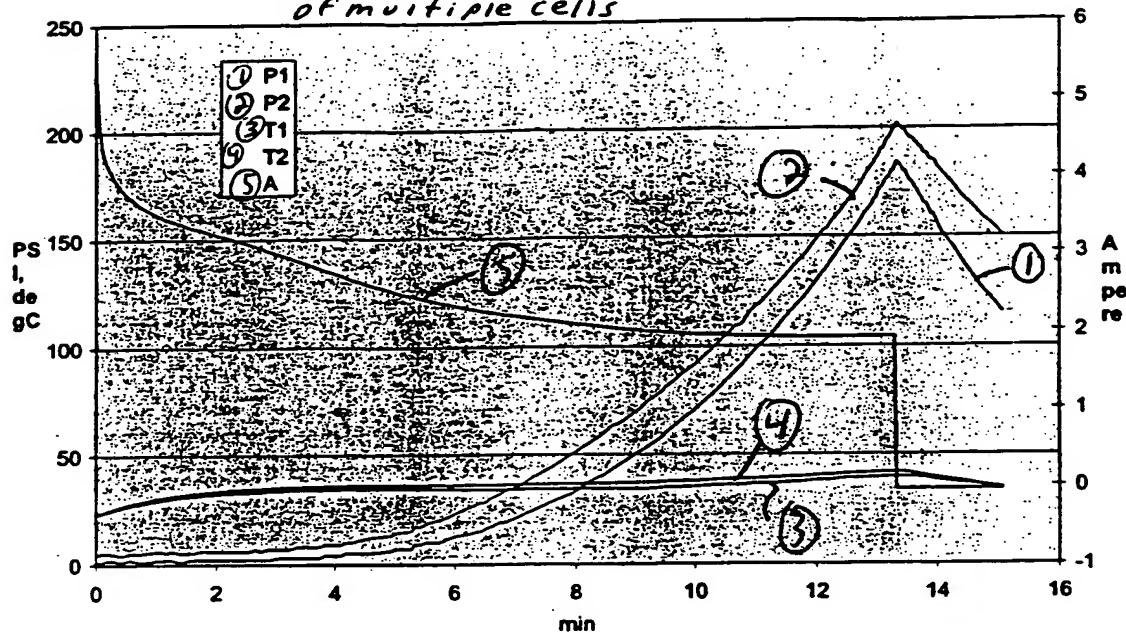
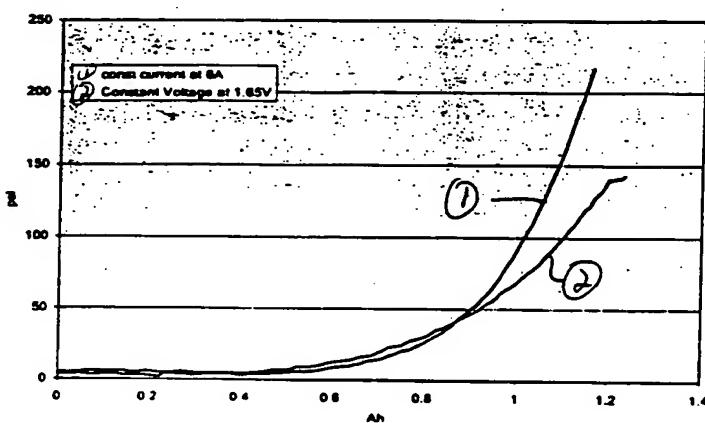


Figure 24

550 mAh cell - Pressure, Temperature and current rise and fall during constant voltage charge of multiple cells

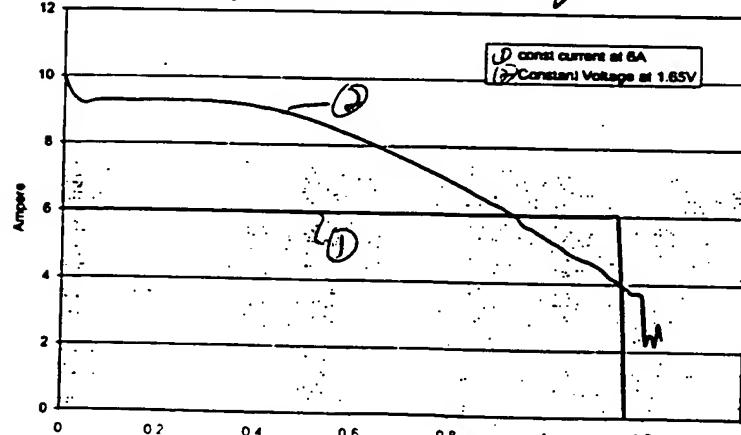


Internal pressure of 1300 mAh Nickel-metal hydride cell - comparing constant current vs. constant voltage



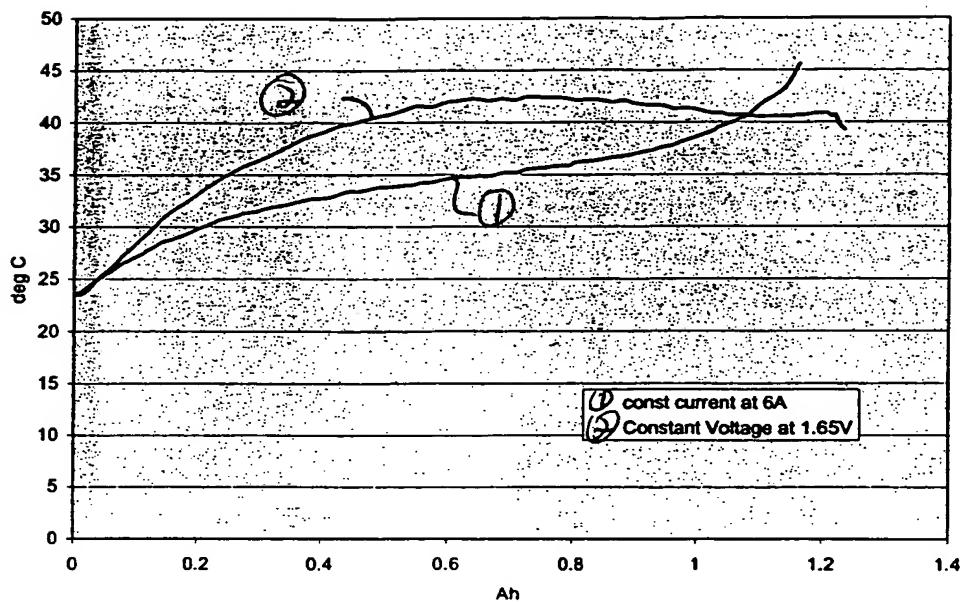
Current during charge of 1300 mAh Nickel-metal hydride cell - comparing constant current vs. constant voltage

Fig. 26



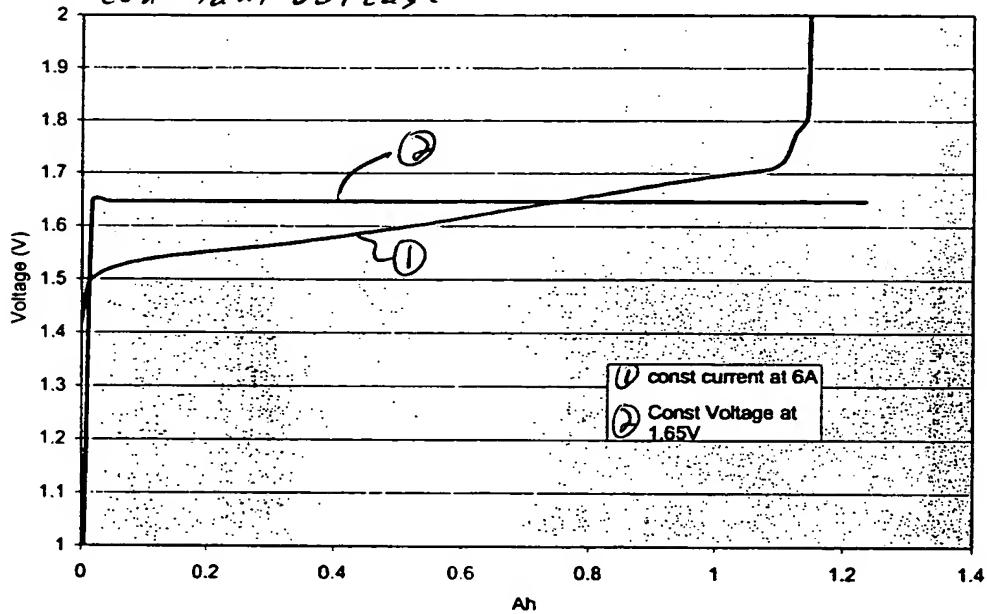
Temperature of 1300 mAh Nickel-metal hydride cell - comparing constant current vs. constant voltage

Fig. 27



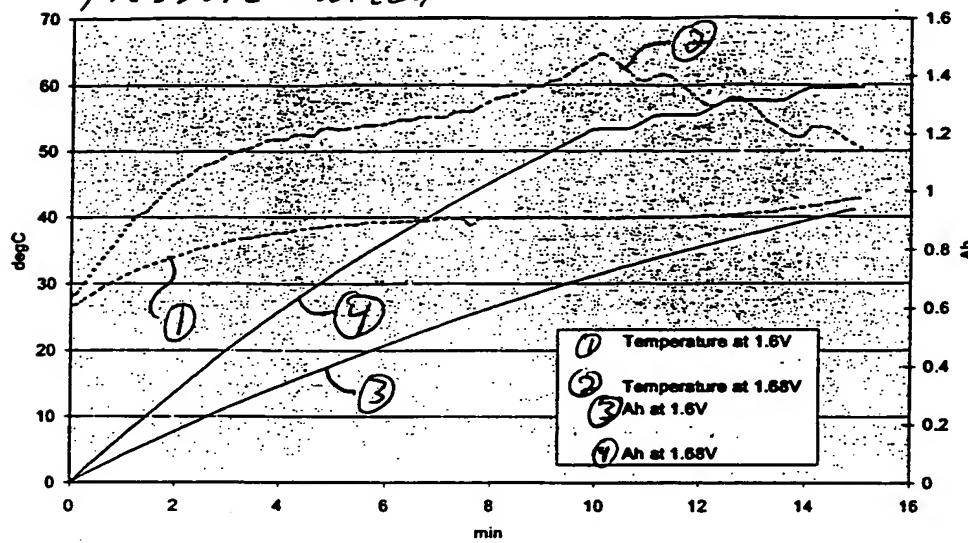
Voltage rise during Charge of 1300 mAh Nickel-metal hydride cell - comparing constant current vs. constant voltage

Fig. 28



Effect of different charge voltage of Nickel-metal hydride cell equipped with end cap pressure switch

Fig. 29



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